



Theme Implementation Plan for Geology Theme

Bureau of Ocean Energy Management
and U.S. Geological Survey

Federal Geographic Data Committee (FGDC)

January 12, 2018



Geology Theme FY2017 Implementation Plan Report



Overview

As part of meeting the requirements under [OMB Circular A-16 Supplemental Guidance](#) and [OMB Circular A-16 Appendix E - NGDA Data Themes, Definitions, and Lead Agencies](#) for NGDA Portfolio Management and NGDA Theme Management, NGDA Themes Leads for a Theme, in coordination with associated NGDA Dataset Managers, have developed Theme Strategic Plans and corresponding implementation plans for each Theme in the NGDA Portfolio. This report provides information on implementing the goals, objectives, and actions outlined in the Theme's Strategic Plan (link below). The report includes information on Theme Personnel (Table 1), National Geospatial Data Asset (NGDA) datasets associated with the Theme (Table 2), and the human and financial resources needed to manage the Theme (Table 3). Table 4 provides a status update on progress made in the current reporting period toward meeting Theme Strategic Plan goals and objectives. Table 5 provides details on the Theme Implementation Plan.

Theme Strategic Plan

<https://communities.geoplatform.gov/ngda-geology/wp-content/uploads/2017/12/Theme-Strategic-Plan-for-Geology-7-15-16.pdf>

Theme Personnel

Theme personnel play a vital role in the operation and maintenance of a Theme. They are “individuals who provide interdepartmental leadership and coordination at the NGDA Theme level. They work with component NGDA Dataset Managers to develop standards and provide guidance. The NGDA Theme Lead, or designee, chairs the NGDA Theme's Thematic Committee and manages the annual process of providing NGDA Dataset collaboration and funding recommendations to the FGDC Steering Committee for those NGDA Datasets within their NGDA Theme. Additionally, the NGDA Theme Lead reports to the Executive NGDA Theme Champion and the FGDC Coordination Group on the NGDA Theme's activities and investments (both current and planned).” Table 1 provides a summary of current Theme Personnel.

Theme Personnel	
Theme Lead (Co-Leads):	Paul Godfriaux (BOEM) and Dave Soller (USGS)
Theme Lead Agencies:	Bureau of Ocean Energy Management (BOEM) and U.S. Geological Survey (USGS)
Executive Theme Champion:	Thomas (Tod) Dabolt
Executive Champion Agency:	Department of the Interior

Table 1. Personnel Involved in Theme Management.

Theme Associated NGDA

Table 2 is a list of NGDA associated with the Theme and the agency responsible for the NGDA. These NGDA are part of the overall NGDA portfolio and are coordinated through the Theme.

Geology Theme NGDA Datasets	NGDA Agency
USGS National Geologic Map Database Collection	USGS
Outer Continental Shelf Oil and Natural Gas Wells - Pacific OCS Region NAD 83	BOEM
Outer Continental Shelf Oil and Natural Gas Wells- Gulf of Mexico Region NAD 27	BOEM
Outer Continental Shelf Oil and Natural Gas Wells- Alaska Region NAD 83	BOEM
Seismic Water Bottom Anomalies - Gulf of Mexico NAD27	BOEM
Federal Sand and Gravel Borrow Areas - Atlantic (Lease Areas)	BOEM

Table 2. NGDA Datasets within the Theme.

Human and Financial Resources Needed for Theme Management

Table 3 below provides an estimate of resources needed for managing this Theme. It includes different activities, the roles that support them, as well as an estimated decimal Full Time Equivalent (FTE) and FTE grade. This estimate does not include the resources required for the agency to develop and maintain the NGDA Dataset(s) that make up the Theme to meet the agency's core mission requirements.

Reporting Period for Human and Financial Resources¹: October 2016 – September 2017

Description of Theme Management Activities	Role (Theme Lead, co-Theme Lead, NGDA Coordinator, other as specified)	FTE ²	FTE Grade
A-16 NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic Plans, etc.)	Co-Theme Lead (BOEM)	.02	13/14
A-16 NGDA Theme management (e.g., attend meetings, review NGDA documents, develop Theme Strategic Plans, etc.)	Co-Theme Lead (USGS)	.05	15
Other Theme administration activities (e.g., publishing NGDA metadata to Data.gov)	Theme Support	.05	13

Table 3. Human and Financial Resources Needed for Theme Management.

Progress Toward Goals and Objectives

The following table shows the progress status made toward achieving the Theme's Strategic Plan goals and objectives since the last reporting period. Status categories include 'Not Started' for those activities that have not gotten underway in the reporting period; 'In Progress' for those activities underway which

¹ Reporting period should align with October 1 – September 30 and be submitted by October 31.

² A full-time employee was available a maximum of 1952 hours during the inclusive period of October 1 – September 30; assuming a Monday-Friday schedule with 8-hour workdays and not counting Federal Holidays. The FTE was determined by taking actual number of hours worked in support of Theme Management divided by 1952 hours, rounded to the nearest 0.01.

will continue into the next year; 'Complete' for the activities finished, or 'Recurring (completed for the current reporting period).

Summary of Goals and Objectives undertaken during 2017		Status
Goal 1: Formulate strategies to improve the management the data sets as needed within the Geology Theme.		
Objective 1.1: Maintain and update data sets in the Geology Theme.		In Progress
Goal 2: Coordinate as necessary with State Geologists, State agencies, academia for offshore sand resource needs and collaboration with USACE, USGS and NOAA on offshore geophysical and geological collection needs.		
Objective 2.1: Facilitate Sand Management Working Groups for offshore sand resource needs.		In Progress

Table 4. Theme Implementation Plan Progress Status.

Theme Implementation Plan

The following table provides details for achieving Theme Strategic Plan goals and objectives over the multi-year planning period. These include roles and responsibilities, specific actions, milestones, performance indicators and projected completion dates.

Goal 1: Formulate strategies to improve the management the data sets as needed within the Geology Theme.				
Objective 1.1: Maintain and update data sets in the Geology Theme. Agency and/or Stakeholders Involved: USGS and BOEM Anticipated Outcome: <ul style="list-style-type: none"> Facilitate the sharing of the Theme's geospatial data, ensure the effective development of the Theme's NGDA Datasets, and convene leadership of the Theme's geospatial community. Establish the standards of achievement in terms of a proportionate improvement in the existing condition. 				
Actions <i>(Description of discrete activities)</i>	Milestones <i>(A significant change in development with associated date)</i>	Performance Indicators <i>(A metric to assess progress of the action)</i>	Action Responsibility <i>(Agency, individuals, and/or groups leading the action)</i>	Projected Completion Date <i>(FY)</i>
1.1.1 USGS Provide geographically-referenced geologic maps and data, both onshore and offshore	Data will be updated from a previous upload, and will include access to selected georeferenced TIF images and GIS files from recent USGS geologic map publications	None in particular; timely updating of content	USGS National Geologic Map Database project	Ongoing

1.1.2.a BOEM Provide distribution of OCS well data	No specific milestones. In 3 regions, Alaska Pacific and Gulf of Mexico will continue to update well data in a timely manner	None in particular; timely updating of well data	BOEM, Martin Byrne in the Alaska Region and Frank Pendleton in the Pacific Region	Ongoing
1.1.2.b BOEM Provide seismic water bottom anomalies in the Gulf of Mexico	Data will continue to be updated, no major milestones	None in particular; data is updated one or more times per year	BOEM Gulf of Mexico Region Resource Evaluation’s Kody Kramer and Bill Shedd	No set data, work is ongoing
1.1.2.c BOEM Provide information on Federal OCS sand and gravel borrow areas – GOMR and Atlantic; Pacific to be included in the near future (lease areas)	- Developing processes to maintain dataset - Automating processes (establish web services for automatic updates to marinecadastre.gov)	Processes documented and tested	BOEM Marine Minerals Program	Ongoing FY2019 is target for automation
Agency and/or Stakeholder		Activity through FY 2017		
BOEM		Wells have been updated in the Alaska, Pacific, and Gulf of Mexico Regions.		
BOEM		Last updated water bottom anomaly polygons in August 2017.		
BOEM		1.1.2.c Currently updated manually and pushed to Marine Cadastre. BOEM is still in procurement phase in regard to obtaining an IT host. Application hasn’t been installed yet, but contractors are in place and processes are being documented (underway). Ongoing effort: Dataset will still need to be manually updated, but then in the database as it gets updated, it will be automatically updated in marinecadastre.gov.		
USGS		1.1.1 After 2018, content will reflect a timelier update than has been possible in the past.		
Goal 2: Coordinate as necessary with State Geologists, State agencies, academia for offshore sand resource needs and collaboration with USACE, USGS and NOAA on offshore geophysical and geological collection needs.				
Objective 2.1: Facilitate Sand Management Working Groups for offshore sand resource needs.				
Agency and/or Stakeholders Involved: BOEM				
Anticipated Outcome: Sand resources made available for beach nourishment projects.				

Actions <i>(Description of discrete activities)</i>	Milestones <i>(A significant change in development with associated date)</i>	Performance Indicators <i>(A metric to assess progress of the action)</i>	Action Responsibility <i>(Agency, individuals, and/or groups leading the action)</i>	Projected Completion Date <i>(FY)</i>
2.1.1 BOEM (Marine Minerals): Complete dataset creation workflow by 2017	Dataset workflow drafted	Pending BOEM internal testing	BOEM, Marine Minerals Program, Lora Turner	2017
2.1.2 BOEM (Marine Minerals): Complete internal guidance document for coordination/collaboration processes by 2017	Data management tools have been shared with partners	Internal Guidance Document being prepared; Complete for coordination/collaboration	BOEM, Marine Minerals Program, Lora Turner	2018
2.1.3 BOEM (Marine Minerals): Fine tune [current ad hoc] process whereby Marine Minerals builds the data set and then provides to the Marine Cadastre team for upload for public access; build an application programming interface in 2017/2018	Ad hoc finetuning process to build dataset	Data set will be provided to the Marine Cadastre team to upload for public access; application in development with contractor; dependent on IT host solution, IT security and funding	BOEM, Marine Minerals Program, Marine Cadastre Team, and IT contractor	2018

Agency and/or Stakeholder	Activity through FY 2017
BOEM	2.1.1 Sand Management Working Groups were conducted in 2016 as well as Data Coordination Meeting with State partners in 2016 and 2017.
BOEM	2.1.2 In progress. Delayed due to the inability to obtain host cloud solution, DOI Denver Data Center is working with us to host, we still have some critical milestones to achieve regarding IT security. Timeline is all over the place, internal solution hoped to be achieved in 2017, public facing 2018-2019 dependent on BSEE / DOI IT security.

Table 5. Theme Implementation Plan.